

## Asst. Prof. GÜLAY AKYÜZ

### Personal Information

**Email:** gulay.akyuz@erdogan.edu.tr

**Web:** <https://avesis.erdogan.edu.tr/gulay.akyuz>

### International Researcher IDs

ScholarID: zMbQmZYAAAAJ

ORCID: 0000-0002-4452-7387

Publons / Web Of Science ResearcherID: JFA-4816-2023

ScopusID: 56785725400

Yoksis Researcher ID: 43259

### Education Information

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2013 - 2018

Postgraduate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Turkey 2010 - 2013

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, "Yeni 2,3-Disüstitüe Kinazolin-4(3H)-on Türevi Bileşiklerin Sentezi ve Biyolojik Özelliklerinin İncelenmesi ,  
Recep Tayyip Erdogan University, Kimya, Kimya, 2018

Postgraduate, karaca mersini solungacından karbonik anhidrazın karakterizasyonu, Recep Tayyip Erdogan University,  
Kimya, Biyokimya, 2013

### Research Areas

Chemistry, Organic Chemistry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2023 - Continues

### Academic and Administrative Experience

### Courses

organik reaksiyon mekanizmalarına giriş, Undergraduate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of novel quinazolinone-triheterocyclic hybrids as dual inhibition of urease and ache**  
MENTEŞE E., Güzel Y. Ü., AKYÜZ G., Karaali N. Ü.  
Journal of the Iranian Chemical Society, vol.21, no.9, pp.2425-2431, 2024 (SCI-Expanded)
- II. **Synthesis and Urease Inhibition Activities of Some New Schiff Bases Benzimidazoles Containing Thiophene Ring**  
Akyüz G.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.50, no.3, pp.974-981, 2024 (SCI-Expanded)
- III. **A facile ultrasonic synthesis approach to 3-<i>H</i>-quinazolinethione derivatives and their urease inhibition studies**  
Çaliskan N., Akyüz G., Mentese E.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.199, no.4, pp.293-298, 2024 (SCI-Expanded)
- IV. **Synthesis and Biological Evaluation of Coumarin-Amino Acid-Benzotriazole Conjugates**  
Mentese E., Caliskan N., Soekmen B., Akyuez G.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.50, no.1, pp.191-200, 2024 (SCI-Expanded)
- V. **Synthesis of Novel Azabenzimidazole Bridged bis-Coumarin Compounds, Investigation of Pancreatic Lipase Inhibitory Properties, and Docking Studies**  
Akyuez G., Faiz Ö., EMİRİK M., Mentese E.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.49, no.SUPPL 1, pp.96-104, 2023 (SCI-Expanded)
- VI. **Benzimidazolone-piperazine/triazole/thiadiazole/furan/thiophene conjugates: Synthesis, in vitro urease inhibition, and in silico molecular docking studies**  
Güven O., MENTEŞE E., EMİRİK M., Sökmen B. B., AKYÜZ G.  
ARCHIV DER PHARMAZIE, vol.356, no.11, 2023 (SCI-Expanded)
- VII. **Synthesis and Characterization of New Bistriazole Quinazolinones and their Urease Inhibition Activities**  
Akyüz G., Mentese E.  
LETTERS IN ORGANIC CHEMISTRY, vol.20, no.3, pp.258-264, 2023 (SCI-Expanded)
- VIII. **Synthesis of New Coumarin-C<sub>3</sub> Benzimidazole Hybrids and Their Urease Inhibition Studies**  
Akyüz G., Mentese E.  
LETTERS IN ORGANIC CHEMISTRY, vol.20, no.9, pp.864-870, 2023 (SCI-Expanded)
- IX. **Synthesis and Docking Studies of Novel Benzimidazole Derivatives Containing Thiophene and Triazole Rings as Potential Urease Inhibitors**  
AKYÜZ G., EMİRİK M., Sokmen B. B., MENTEŞE E.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.48, no.SUPPL 1, 2022 (SCI-Expanded)
- X. **Synthesis and urease inhibition studies of some new quinazolinones**  
AKYÜZ G.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.58, no.5, pp.1164-1170, 2021 (SCI-Expanded)
- XI. **Synthesis of novel 2,3-disubstituted quinazolin-4(3H)-one derivatives containing hydrazone skeleton as potent urease inhibitors and their antimicrobial activities**  
Akyuz G., BERIS F. Ş., KAHVECİ B., Mentese E.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.56, no.11, pp.3065-3072, 2019 (SCI-Expanded)
- XII. **Synthesis, in vitro urease inhibition and molecular docking studies of some novel quinazolin-4(3H)-one derivatives containing triazole, thiadiazole and thiosemicarbazide functionalities**  
Mentese E., Akyuz G., Emirik M., Baltas N.  
BIOORGANIC CHEMISTRY, vol.83, pp.289-296, 2019 (SCI-Expanded)
- XIII. **Synthesis of some novel quinazolin-4(3H)-one hybrid molecules as potent urease inhibitors**  
Mentese E., Akyuz G., Yilmaz F., Baltas N., Emirik M.  
ARCHIV DER PHARMAZIE, vol.351, no.12, 2018 (SCI-Expanded)

- XIV. **Synthesis and molecular docking study of some novel 2,3-disubstituted quinazolin-4(3H)-one derivatives as potent inhibitors of urease**  
Akyuz G., Mentese E., Emirik M., Baltas N.  
BIOORGANIC CHEMISTRY, vol.80, pp.121-128, 2018 (SCI-Expanded)
- XV. **Synthesis and evaluation of alpha-glucosidase and pancreatic lipase inhibition by quinazolinone-coumarin hybrids**  
Mentese E., Karaali N., Akyuz G., Yilmaz F., Ulker S., KAHVECİ B.  
CHEMISTRY OF HETEROCYCLIC COMPOUNDS, vol.52, no.12, pp.1017-1024, 2016 (SCI-Expanded)
- XVI. **Characterization and inhibition studies of carbonic anhydrase from gill of Russian Sturgeon Fish (Acipenser gueldenstaedtii)**  
Dincer B., Ekinçi A. P., AKYUZ G., Kurtoglu I. Z.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1662-1665, 2016 (SCI-Expanded)
- XVII. **Inhibition of mammalian carbonic anhydrase isoforms I-XIV with a series of phenolic acid esters**  
MARESCA A., Akyuz G., OSMAN S. M., ALOTHMAN Z., SUPURAN C. T.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.23, no.22, pp.7181-7188, 2015 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Synthesis of Benzimidazole derivatives containing Schiff base exhibiting antiurease activities**  
AKYÜZ G.  
Cumhuriyet Science Journal, 2021 (Peer-Reviewed Journal)
- II. **Microwave-Assisted Synthesis of Some Benzimidazole Derivatives Containing Imine Function**  
AKYÜZ G., YILMAZ F., MENTEŞE E.  
Avrupa Bilim ve Teknoloji Dergisi, vol.2, no.4, pp.123-127, 2015 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and DPPH scavenging activities of some new benzimidazole derivatives**  
AKYÜZ G.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), 24 November 2021
- II. **Synthesis and molecular docking study of some novel 2,3-disubstitutedquinazolin-4(3H)-one derivatives as potent inhibitors of urease**  
AKYÜZ G., MENTEŞE E.  
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- III. **.Synthesis of some new quinazolinones containing thiadiazole ring with their anti-urease activity.**  
AKYÜZ G., MENTEŞE E.  
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.55
- IV. **. Synthesis some novel 2,3-disubstituted quinazolin-4(3H)-one cointaining imin bond and some biological properties**  
AKYÜZ G.  
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.45
- V. **Synthesis of some new quinazolinones containing thiadiazole ring with their anti-urease activity**  
AKYÜZ G., MENTEŞE E., BALTAŞ N., YILMAZ F.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018

- VI. **Synthesis of Some Benzimidazole Derivatives Containing Imine Function and Calculation of Their E/Z Isomers**  
YILMAZ F., MENTEŞE E., AKYÜZ G., KARAALI N., KAHVECİ B.  
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 October 2017
- VII. **Synthesis of some new quinazolinones containing oxadiazol and furan rings with their anti-urease activity**  
AKYÜZ G., MENTEŞE E., BALTAŞ N.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.602
- VIII. **Synthesis and urease inhibition of quinazolinone-coumarin hybrid compounds**  
AKYÜZ G., MENTEŞE E., YILMAZ F., BALTAŞ N.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.599

## Supported Projects

AKYÜZ G., çalışkan n., Project Supported by Higher Education Institutions, Piperazin Halkası İçeren Yeni Azabenzimidazol Türevi Bileşiklerin Sentezi ve Bazı Enzim İnhibisyon Özelliklerinin İncelenmesi, 2024 - Continues

AKYÜZ G., MENTEŞE E., Project Supported by Higher Education Institutions, Azabenzimidazol on Tiyadiazol ve Azabenzimidazol on Kumarin Hibrit Bileşiklerinin Sentezi ve Enzim İnhibisyon Özelliklerinin İncelenmesi, 2023 - 2024

AKYÜZ G., BİLGİN SÖKMEN B., Project Supported by Higher Education Institutions, Tiyofen ve benzimidazol halkası içeren heterosiklik bileşiklerin sentezi ve biyolojik özelliklerinin incelenmesi, 2020 - 2021

AKYÜZ G., KARAALI N., Project Supported by Higher Education Institutions, 2,3 Disübstitüe kinazolin-3on türevi bileşiklerin sentezi, karakterizasyonu ve bazı biyolojik özelliklerinin incelenmesi, 2018 - 2019

MENTEŞE E., BALTAŞ N., AKYÜZ G., Project Supported by Higher Education Institutions, Kinazolinon çekirdeği içeren bazı heterosiklik bileşiklerin sentezi ve enzim inhibisyon özelliklerinin incelenmesi, 2017 - 2019

## Metrics

Publication: 27  
Citation (WoS): 133  
Citation (Scopus): 154  
H-Index (WoS): 7  
H-Index (Scopus): 7

## Congress and Symposium Activities

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Attendee, Ankara, Turkey, 2018

1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Attendee, Ankara, Turkey, 2018

IVEK 3. Uluslararası İlaç ve Eczacılık Kongresi, Attendee, İstanbul, Turkey, 2017